

SEQUENCE LISTING

<110> Blaschuk, Orest W.
Symonds, James Matthew
Gour, Barbara J.

<120> COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
CADHERIN-MEDIATED FUNCTIONS

<130> 100086.407C7

<140> US
<141> 2001-12-03

<160> 4052

<170> PatentIn Ver. 2.0

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<223> Where Xaa is any amino acid

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Motif in Extracellular domains of Classical
Cadherins

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Motif in Extracellular domains of Classical
Cadherins

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Leu Asp Arg Glu
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<222> (4)

<223> Where Xaa is Isoleucine, Leucine or Valine

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<222> (5)

<223> Where Xaa is Aspartic Acid, Asparagine or Glutamic Acid

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<223> Where Xaa is Serine, Threonine or Asparagine

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<223> Description of Unknown Organism: Cell Adhesion Recognition Sequence of Nonclassical Cadherins

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Xaa Phe Xaa Xaa Xaa Xaa Xaa Gly
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<213> Homo sapiens

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Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu
1 5 10 15

Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
20 25 30

Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
35 40 45

Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
50 55 60

Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln

65		70		75		80									
Ala	Val	Asp	Arg	Asp	Thr	Asn	Arg	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe
				85					90					95	
Ile	Val	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Glu	Phe		
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<210> 5
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Leu	His	Glu	Thr	Tyr	His	Ala	Asn	Val	Pro	Glu	Arg	Ser	Asn	Val	Gly
1				5					10					15	
Thr	Ser	Val	Ile	Gln	Val	Thr	Ala	Ser	Asp	Ala	Asp	Asp	Pro	Thr	Tyr
			20					25					30		
Gly	Asn	Ser	Ala	Lys	Leu	Val	Tyr	Ser	Ile	Leu	Glu	Gly	Gln	Pro	Tyr
		35					40					45			
Phe	Ser	Val	Glu	Ala	Gln	Thr	Gly	Ile	Ile	Arg	Thr	Ala	Leu	Pro	Asn
	50					55					60				
Met	Asp	Arg	Glu	Ala	Lys	Glu	Glu	Tyr	His	Val	Val	Ile	Gln	Ala	Lys
65					70					75					80
Asp	Met	Gly	Gly	His	Met	Gly	Gly	Leu	Ser	Gly	Thr	Thr	Lys	Val	Thr
				85					90					95	
Ile	Thr	Leu	Thr	Asp	Val	Asn	Asp	Asn	Pro	Pro	Lys	Phe			
			100					105							

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Lys	Asn	Thr	Ser	Leu	Pro	His	His	Val	Gly	Lys	Ile	Lys	Ser	Ser	Val
			20					25					30		
Ser	Arg	Lys	Asn	Ala	Lys	Tyr	Leu	Leu	Lys	Gly	Glu	Tyr	Val	Gly	Lys
		35					40					45			
Val	Phe	Arg	Val	Asp	Ala	Glu	Thr	Gly	Asp	Val	Phe	Ala	Ile	Glu	Arg
	50					55					60				
Leu	Asp	Arg	Glu	Asn	Ile	Ser	Glu	Tyr	His	Leu	Thr	Ala	Val	Ile	Val
65					70					75					80
Asp	Lys	Asp	Thr	Gly	Glu	Asn	Leu	Glu	Thr	Pro	Ser	Ser	Phe	Thr	Ile
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Lys Val His Asp Val Asn Asp Asn Trp Pro Val Phe
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 Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
 20 25 30
 Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
 35 40 45
 Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
 50 55 60
 Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
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 Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
 85 90 95
 Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
 100 105 110

<210> 8
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 Thr Phe Val Val Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
 20 25 30
 Gly Asn Ser Ala Lys Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
 35 40 45
 Phe Ser Val Glu Ser Glu Thr Gly Ile Ile Lys Thr Ala Leu Leu Asn
 50 55 60
 Met Asp Arg Glu Asn Arg Glu Gln Tyr Gln Val Val Ile Gln Ala Lys
 65 70 75 80
 Asp Met Gly Gly Gln Met Gly Gly Leu Ser Gly Thr Thr Thr Val Asn
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 Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
 100 105

<210> 9

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Leu Asp Gly Pro Tyr Thr Ala Gly Val Pro Glu Met Ser Pro Val Gly
 1 5 10 15
 Thr Ser Val Val Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
 20 25 30
 Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
 35 40 45
 Phe Ser Val Glu Pro Lys Thr Gly Ile Ile Lys Thr Ala Leu Pro Asn
 50 55 60
 Met Asp Arg Glu Ala Lys Asp Gln Tyr Leu Leu Val Ile Gln Ala Lys
 65 70 75 80
 Asp Met Val Gly Gln Asn Gly Gly Leu Ser Gly Thr Thr Ser Val Thr
 85 90 95
 Val Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
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<210> 12
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 <213> Gallus gallus

<400> 12
 Thr Ser Arg Leu Tyr Ser Met Val Val Ser Glu Ala Ala Lys Val Gly
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 Thr Ile Ile Gly Thr Val Ala Ala His Asp Pro Asp Ala Ser Asn Ser
 20 25 30
 Pro Val Arg Tyr Ser Ile Asp Arg Asn Thr Asp Leu Glu Arg Tyr Phe
 35 40 45
 Asn Ile Asp Ala Asn Ser Gly Val Ile Thr Thr Ala Lys Ser Leu Asp
 50 55 60
 Arg Glu Thr Asn Ala Val His Asn Ile Thr Val Leu Ala Met Glu Ser
 65 70 75 80
 Gln Asn Pro Ala Gln Ile Gly Arg Gly Tyr Val Ala Ile Thr Ile Leu
 85 90 95
 Asp Ile Asn Asp Asn Ala Pro Glu Phe
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<210> 13
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<400> 13
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 1 5 10 15
 Phe Ser Gly Pro Glu Pro Ile Leu Val Gly Arg Leu His Thr Asp Leu
 20 25 30

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Asp Pro Gly Ser Lys Lys Ile Lys Tyr Ile Leu Ser Gly Asp Gly Ala
 35 40 45
 Gly Thr Ile Phe Gln Ile Asn Asp Val Thr Gly Asp Ile His Ala Ile
 50 55 60
 Lys Arg Leu Asp Arg Glu Lys Ala Glu Tyr Thr Leu Thr Ala Gln
 65 70 75 80
 Ala Val Asp Trp Glu Thr Ser Lys Pro Leu Glu Pro Pro Ser Glu Phe
 85 90 95
 Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Glu Phe
 100 105 110

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<400> 14
 Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
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 Tyr Val Gly Ser Glu Pro Gln Tyr Val Gly Lys Leu His Ser Asp Leu
 20 25 30
 Asp Lys Gly Glu Gly Thr Val Lys Tyr Thr Leu Ser Gly Asp Gly Ala
 35 40 45
 Gly Thr Val Phe Thr Ile Asp Glu Thr Thr Gly Asp Ile His Ala Ile
 50 55 60
 Arg Ser Leu Asp Arg Glu Glu Lys Pro Phe Tyr Thr Leu Arg Ala Gln
 65 70 75 80
 Ala Val Asp Ile Glu Thr Arg Lys Pro Leu Glu Pro Glu Ser Glu Phe
 85 90 95
 Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Glu Pro Lys Phe
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<210> 15
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<400> 15
 Leu Asp Gly Pro Tyr Val Ala Thr Val Pro Glu Met Ser Pro Val Gly
 1 5 10 15
 Ala Tyr Val Leu Gln Val Lys Ala Thr Asp Ala Asp Asp Pro Thr Tyr
 20 25 30
 Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
 35 40 45
 Phe Ser Ile Asp Pro Lys Thr Gly Val Ile Arg Thr Ala Leu Pro Asn

50 55 60

Met Asp Arg Glu Val Lys Glu Gln Tyr Gln Val Leu Ile Gln Ala Lys
65 70 75 80

Asp Met Gly Gly Gln Leu Gly Gly Leu Ala Gly Thr Thr Ile Val Asn
85 90 95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
100 105

<210> 16
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<400> 16

Arg Pro Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
1 5 10 15

His Met Gly Pro Asp Pro Gln Tyr Val Gly Lys Leu His Ser Asn Ser
20 25 30

Asp Lys Gly Asp Gly Ser Val Lys Tyr Ile Leu Thr Gly Glu Gly Ala
35 40 45

Gly Thr Ile Phe Ile Ile Asp Asp Thr Thr Gly Asp Ile His Ser Thr
50 55 60

Lys Ser Leu Asp Arg Glu Gln Lys Thr His Tyr Val Leu His Ala Gln
65 70 75 80

Ala Ile Asp Arg Arg Thr Asn Lys Pro Leu Glu Pro Glu Ser Glu Phe
85 90 95

Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Lys Phe
100 105 110

<210> 17
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<213> Homo sapiens

<400> 17

Thr Asp Gly Pro Tyr Ile Val Thr Val Pro Glu Met Ser Asp Met Gly
1 5 10 15

Thr Ser Val Leu Gln Val Thr Ala Thr Asp Ala Asp Asp Pro Thr Tyr
20 25 30

Gly Asn Ser Ala Arg Val Val Tyr Ser Ile Leu Gln Gly Gln Pro Tyr
35 40 45

Phe Ser Val Asp Pro Lys Thr Gly Val Ile Arg Thr Ala Leu His Asn
50 55 60

Met Asp Arg Glu Ala Arg Glu His Tyr Ser Val Ile Gln Ala Lys
65 70 75 80

Asp Met Ala Gly Gln Val Gly Gly Leu Ser Gly Ser Thr Thr Val Asn
 85 90 95

Ile Thr Leu Thr Asp Val Asn Asp Asn Pro Pro Arg Phe
 100 105

<210> 18
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<400> 18
 Ser Met Pro Ser Tyr Leu Met Glu Val Tyr Glu Asn Ala Lys Ile Gly
 1 5 10 15

Thr Val Val Gly Thr Val Leu Ala Gln Asp Pro Asp Ser Thr Asn Ser
 20 25 30

Leu Val Arg Tyr Phe Ile Asn Tyr Asn Val Glu Asp Asp Arg Phe Phe
 35 40 45

Asn Ile Asp Ala Asn Thr Gly Thr Ile Arg Thr Thr Lys Val Leu Asp
 50 55 60

Arg Glu Glu Thr Pro Trp Tyr Asn Ile Thr Val Thr Ala Ser Glu Ile
 65 70 75 80

Asp Asn Pro Asp Leu Leu Ser His Val Thr Val Gly Ile Arg Val Leu
 85 90 95

Asp Val Asn Asp Asn Pro Pro Glu Leu
 100 105

<210> 19
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<400> 19
 Arg Val Arg Arg Ala Trp Val Ile Pro Pro Ile Ser Val Ser Glu Asn
 1 5 10 15

His Lys Arg Leu Pro Tyr Pro Leu Val Gln Ile Lys Ser Asp Lys Gln
 20 25 30

Gln Leu Gly Ser Val Ile Tyr Ser Ile Gln Gly Pro Gly Val Asp Glu
 35 40 45

Glu Pro Arg Gly Val Phe Ser Ile Asp Lys Phe Thr Gly Lys Val Phe
 50 55 60

Leu Asn Ala Met Leu Asp Arg Glu Lys Thr Asp Arg Phe Arg Leu Arg
 65 70 75 80

Ala Phe Ala Leu Asp Leu Gly Gly Ser Thr Leu Glu Asp Pro Thr Asp
 85 90 95

Leu Glu Ile Val Val Val Asp Gln Asn Asp Asn Arg Pro Ala Phe
 100 105 110

113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

<210> 20
 <211> 108
 <212> PRT
 <213> Homo sapiens

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 Thr Tyr Val Thr Arg Ala Glu Ala Thr Asp Ala Asp Asp Pro Glu Thr
 20 25 30
 Asp Asn Ala Ala Leu Arg Phe Ser Ile Leu Gln Gln Gly Ser Pro Glu
 35 40 45
 Leu Phe Ser Ile Asp Glu Leu Thr Gly Glu Ile Arg Thr Val Gln Val
 50 55 60
 Gly Leu Asp Arg Glu Val Val Ala Val Tyr Asn Leu Thr Leu Gln Val
 65 70 75 80
 Ala Asp Met Ser Gly Asp Gly Leu Thr Ala Thr Ala Ser Ala Ile Ile
 85 90 95
 Thr Leu Asp Asp Ile Asn Asp Asn Ala Pro Glu Phe
 100 105

<210> 21
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 21
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 Gln Arg Gln Pro Phe Pro Arg Asp Val Gly Lys Val Val Asp Ser Asp
 20 25 30
 Arg Pro Glu Arg Ser Lys Phe Arg Leu Thr Gly Lys Gly Val Asp Gln
 35 40 45
 Glu Pro Lys Gly Ile Phe Arg Ile Asn Glu Asn Thr Gly Ser Val Ser
 50 55 60
 Val Thr Arg Thr Leu Asp Arg Glu Val Ile Ala Val Tyr Gln Leu Phe
 65 70 75 80
 Val Glu Thr Thr Asp Val Asn Gly Lys Thr Leu Glu Gly Pro Val Pro
 85 90 95
 Leu Glu Val Ile Val Ile Asp Gln Asn Asp Asn Arg Pro Ile Phe
 100 105 110

<210> 22
 <211> 110
 <212> PRT

<400>	22															
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Tyr	Thr	Gly	Thr	Glu	Pro	Leu	Tyr	Val	Gly	Lys	Ile	His	Ser	Asp	Ser	
			20					25					30			
Asp	Glu	Gly	Asp	Gly	Thr	Ile	Lys	Tyr	Thr	Ile	Ser	Gly	Glu	Gly	Ala	
		35					40					45				
Gly	Thr	Ile	Phe	Leu	Ile	Asp	Glu	Leu	Thr	Gly	Asp	Ile	His	Ala	Thr	
	50					55					60					
Glu	Arg	Leu	Asp	Arg	Glu	Gln	Lys	Thr	Phe	Tyr	Thr	Leu	Arg	Ala	Gln	
65					70					75					80	
Ala	Arg	Asp	Arg	Ala	Thr	Asn	Arg	Leu	Leu	Glu	Pro	Glu	Ser	Glu	Phe	
				85					90					95		
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Ser	Glu	Pro	Arg	Phe			
			100					105					110			

<400> 23															
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Thr	Ser	Val	Met	Gln	Val	Met	Ala	Ser	Asp	Ala	Asp	Asp	Pro	Thr	Tyr
			20					25					30		
Gly	Ser	Ser	Ala	Arg	Leu	Val	Tyr	Ser	Val	Leu	Asp	Gly	Glu	His	His
		35					40					45			
Phe	Thr	Val	Asp	Pro	Lys	Thr	Gly	Val	Ile	Arg	Thr	Ala	Val	Pro	Asp
	50					55					60				
Leu	Asp	Arg	Glu	Ser	Gln	Glu	Arg	Tyr	Glu	Val	Val	Ile	Gln	Ala	Thr
65					70					75					80
Asp	Met	Ala	Gly	Gln	Leu	Gly	Gly	Leu	Ser	Gly	Ser	Thr	Thr	Val	Thr
				85					90					95	
Ile	Val	Val	Thr	Asp	Val	Asn	Asp	Asn	Pro	Pro	Arg	Phe			
			100					105							

<400> 24
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1 5 10 15

Ser Leu Val Gly Val Val Thr Ala Arg Asp Pro Asp Ala Ala Asn Arg
 20 25 30
 Pro Val Arg Tyr Ala Ile Asp Arg Asp Ser Asp Leu Glu Gln Ile Phe
 35 40 45
 Asp Ile Asp Ala Asp Thr Gly Ala Ile Val Thr Gly Lys Gly Leu Asp
 50 55 60
 Arg Glu Thr Ala Gly Trp His Asn Ile Thr Val Leu Ala Met Glu Ala
 65 70 75 80
 Asp Asn His Ala Gln Leu Ser Arg Ala Ser Leu Arg Ile Arg Ile Leu
 85 90 95
 Asp Val Asn Asp Asn Pro Pro Glu Leu
 100 105

<210> 25
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 25
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 Lys Pro Phe Leu Tyr Val Asn Ala Thr Asp Leu Asp Asp Pro Ala Thr
 20 25 30
 Pro Asn Gly Gln Leu Tyr Tyr Gln Ile Val Ile Gln Leu Pro Met Ile
 35 40 45
 Asn Asn Val Met Tyr Phe Gln Ile Asn Asn Lys Thr Gly Ala Ile Ser
 50 55 60
 Leu Thr Arg Glu Gly Ser Gln Glu Leu Asn Pro Ala Lys Asn Pro Tyr
 65 70 75 80
 Asn Leu Val Ile Ser Val Lys Asp Met Gly Gly Gln Ser Glu Asn Ser
 85 90 95
 Phe Ser Asp Thr Thr Ser Val Asp Ile Ile Val Thr Glu Asn Ile Trp
 100 105 110
 Lys Ala Pro Ala Pro
 115

<210> 26
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 26
 Asn Gln Ser Leu Tyr Arg Ala Arg Val Pro Gly Gly Cys Thr Ser Gly
 1 5 10 15
 Thr Arg Val Val Gln Val Leu Ala Thr Asp Leu Asp Glu Gly Pro Asn

116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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<210> 27
<211> 110
<212> PRT
<213> Homo sapiens

<400> 27
Ser Gln Ser Ser Tyr Asp Val Tyr Ile Glu Glu Asn Asn Leu Pro Gly
 1          5          10          15
Ala Pro Ile Leu Asn Leu Ser Val Trp Asp Pro Asp Ala Pro Gln Asn
          20          25          30
Ala Arg Leu Ser Phe Phe Leu Leu Glu Gln Gly Ala Glu Thr Gly Leu
          35          40          45
Val Gly Arg Tyr Phe Thr Ile Asn Arg Asp Asn Gly Ile Val Ser Ser
          50          55          60
Leu Val Pro Leu Asp Tyr Glu Asp Arg Arg Glu Phe Glu Leu Thr Ala
          65          70          75          80
His Ile Ser Asp Gly Gly Thr Pro Val Leu Ala Thr Asn Ile Ser Val
          85          90          95
Asn Ile Phe Val Thr Asp Arg Asn Asp Asn Ala Pro Gln Val
          100          105          110

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<210> 28
<211> 108
<212> PRT
<213> Homo sapiens

<400> 28
Glu Ala Pro Ser Tyr Leu Val Glu Leu Pro Glu Asn Thr Pro Leu Gly
 1          5          10          15
Thr Val Val Ile Asp Leu Asn Ala Thr Asp Ala Asp Glu Gly Pro Asn
          20          25          30
Gly Glu Val Leu Tyr Ser Phe Ser Ser Tyr Val Pro Asp Arg Val Arg
          35          40          45

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Glu Leu Phe Ser Ile Asp Pro Lys Thr Gly Leu Ile Arg Val Lys Gly
 50 55 60
 Asn Leu Asp Tyr Glu Glu Asn Gly Met Leu Glu Ile Asp Val Gln Ala
 65 70 75 80
 Arg Asp Leu Gly Pro Asn Leu Ile Pro Ala His Cys Lys Val Thr Val
 85 90 95
 Lys Leu Ile Asp Arg Asn Asp Asn Ala Pro Ser Ile
 100 105

<210> 29
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 29
 Val Leu Pro Thr Leu Gln Asn Asp Thr Ala Glu Leu Gln Val Pro Arg
 1 5 10 15
 Asn Ala Gly Leu Gly Tyr Leu Val Ser Thr Val Arg Ala Leu Asp Ser
 20 25 30
 Asp Phe Gly Glu Ser Gly Arg Leu Thr Tyr Glu Ile Val Asp Gly Asn
 35 40 45
 Asp Asp His Leu Phe Glu Ile Asp Pro Ser Ser Gly Glu Ile Arg Thr
 50 55 60
 Leu His Pro Phe Trp Glu Asp Val Thr Pro Val Val Glu Leu Val Val
 65 70 75 80
 Lys Val Thr Asp His Gly Lys Pro Thr
 85

<210> 30
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 30
 Arg Gln Lys Arg Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly
 1 5 10 15
 Glu Asp Asn Ser Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys
 20 25 30
 Ala Ala Asn Gln Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp
 35 40 45
 Gln Pro Pro Tyr Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile
 50 55 60
 Asn Ile Thr Ser Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile
 65 70 75 80
 Tyr Cys Arg Ala Leu Asn Ser Met Gly Gln Asp Leu Glu Arg Pro Leu
 85 90 95

Glu Leu Arg Val Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
 100 105 110

<210> 31
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 31
 Ser Met Ala Thr Phe Ala Gly Gln Ile Glu Glu Asn Ser Asn Ala Asn
 1 5 10 15
 Thr Leu Val Met Ile Leu Asn Ala Thr Asp Ala Asp Glu Pro Asn Asn
 20 25 30
 Leu Asn Ser Lys Ile Ala Phe Lys Ile Ile Arg Gln Glu Pro Ser Asp
 35 40 45
 Ser Pro Met Phe Ile Ile Asn Arg Asn Thr Gly Glu Ile Arg Thr Met
 50 55 60
 Asn Asn Phe Leu Asp Arg Glu Gln Tyr Gly Gln Tyr Ala Leu Ala Val
 65 70 75 80
 Arg Gly Ser Asp Arg Asp Gly Gly Ala Asp Gly Met Ser Ala Glu Cys
 85 90 95
 Glu Cys Asn Ile Lys Ile Leu Asp Val Asn Asp Asn Ile Pro Tyr Met
 100 105 110

<210> 32
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 32
 Thr Gln Asp Val Phe Val Gly Ser Val Glu Glu Leu Ser Ala Ala His
 1 5 10 15
 Thr Leu Val Met Lys Ile Asn Ala Thr Asp Ala Asp Glu Pro Asn Thr
 20 25 30
 Leu Asn Ser Lys Ile Ser Tyr Arg Ile Val Ser Leu Glu Pro Ala Tyr
 35 40 45
 Pro Pro Val Phe Tyr Leu Asn Lys Asp Thr Gly Glu Ile Tyr Thr Thr
 50 55 60
 Ser Val Thr Leu Asp Arg Glu Glu His Ser Ser Tyr Thr Leu Thr Val
 65 70 75 80
 Glu Ala Arg Asp Gly Asn Gly Glu Val Thr Asp Lys Pro Val Lys Gln

95

Val

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<210> 33
<211> 107
<212> PRT
<213> Homo sapiens
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<400>	33															
Arg	Trp	Ala	Pro	Ile	Pro	Ala	Ser	Leu	Met	Glu	Asn	Ser	Leu	Gly	Pro	
1				5					10					15		
Phe	Pro	Gln	His	Val	Gln	Gln	Ile	Gln	Ser	Asp	Ala	Ala	Gln	Asn	Tyr	
			20					25					30			
Thr	Ile	Phe	Tyr	Ser	Ile	Ser	Gly	Pro	Gly	Val	Asp	Lys	Glu	Pro	Phe	
		35					40					45				
Asn	Leu	Phe	Tyr	Ile	Glu	Lys	Asp	Thr	Gly	Asp	Ile	Phe	Cys	Thr	Arg	
	50					55					60					
Ser	Ile	Asp	Arg	Glu	Lys	Tyr	Glu	Gln	Phe	Ala	Leu	Tyr	Gly	Tyr	Ala	
65					70					75					80	
Thr	Thr	Ala	Asp	Gly	Tyr	Ala	Pro	Glu	Tyr	Pro	Leu	Pro	Leu	Ile	Ile	
				85					90					95		
Lys	Ile	Glu	Asp	Asp	Asn	Asp	Asn	Ala	Pro	Tyr						
			100					105								

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<210> 34
<211> 107
<212> PRT
<213> Homo sapiens
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<400> 34															
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1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Gln	Ser	Asp	Thr	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Ile	Tyr	Tyr	Ser	Ile	Arg	Gly	Pro	Gly	Val	Asp	Gln	Glu	Pro	Arg
		35					40					45			
Asn	Leu	Phe	Tyr	Val	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Tyr	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Gln	Tyr	Glu	Ser	Phe	Glu	Ile	Ile	Ala	Phe	Ala
65					70					75					80
Thr	Thr	Pro	Asp	Gly	Tyr	Thr	Pro	Glu	Leu	Pro	Leu	Pro	Leu	Ile	Ile
				85					90					95	

Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile
 100 105

<210> 35
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 35
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 Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
 35 40 45
 Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
 85 90 95
 Arg Val Glu Asp Glu Asn Asp Asn His Pro Val
 100 105

<210> 36
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 36
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
 35 40 45
 Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
 85 90 95
 Arg Val Glu Asp Glu Asn Asp Asn His Pro Val
 100 105

<210> 37

<211> 108
 <212> PRT
 <213> Mus musculus

<400> 37
 Asp Arg Ser Leu Tyr Thr Val Lys Leu Pro Glu Asn Val Pro Asn Gly
 1 5 10 15
 Thr Leu Val Val Lys Val Asn Ala Ser Asp Leu Asp Glu Gly Val Asn
 20 25 30
 Gly Asp Ile Met Tyr Ser Phe Ser Thr Asp Ile Ser Pro Asn Val Lys
 35 40 45
 Tyr Lys Phe His Ile Asp Pro Val Ser Gly Glu Ile Ile Val Lys Gly
 50 55 60
 Tyr Ile Asp Phe Glu Glu Cys Lys Ser Tyr Glu Ile Leu Ile Glu Gly
 65 70 75 80
 Ile Asp Lys Gly Gln Leu Pro Leu Ser Gly His Cys Lys Val Ile Val
 85 90 95
 Gln Val Glu Asp Ile Asn Asp Asn Val Pro Glu Leu
 100 105

<210> 38
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 38
 Gln His Pro Glu Tyr Glu Val Arg Ile Leu Glu Asn Ser Asp Asn Gly
 1 5 10 15
 Thr Thr Val Ile Arg Leu Asn Ala Ser Asp Lys Asp Glu Gly Thr Asn
 20 25 30
 Ser Ala Ile Ser Tyr Ser Phe Asn Arg Leu Val Pro Pro Lys Thr Leu
 35 40 45
 Glu Gln Phe Ser Ile Asp Ala Asp Thr Gly Glu Ile Ile Thr Gln Gly
 50 55 60
 Asn Leu Asp Phe Glu Gln Val Asp Val Tyr Lys Ile His Val Asp Ala
 65 70 75 80
 Thr Asp Lys Gly His Pro Pro Met Val Gly His Cys Thr Val Leu Val
 85 90 95
 Lys Val Leu Asp Glu Asn Asp Asn Val Pro Gln Ile
 100 105

<210> 39
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 39

Asp Arg Ala Ile Tyr Arg Val Lys Leu Val Glu Asn Ala Arg Asn Gly
 1 5 10 15
 Thr Val Val Ile Arg Leu Asn Ala Ser Asp Leu Asp Glu Gly Ser Asn
 20 25 30
 Gly Gln Ile Leu Tyr Ser Phe Ala Ala Asp Val Ser Pro Lys Thr Glu
 35 40 45
 Ala Thr Phe His Ile Asp Ser Val Ser Gly Glu Ile Lys Val Asn Gly
 50 55 60
 Lys Ile Asp Phe Glu Glu Thr Asn Leu Trp Lys Ile Gln Ala Glu Ala
 65 70 75 80
 Val Asp Lys Gly Ser Pro Pro Met Phe Gly His Cys Thr Ile Leu Ile
 85 90 95
 Glu Val Leu Asp Ile Asn Asp Asn Ala Pro Lys Ile
 100 105

<210> 40
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 40
 Asp Arg Phe Val Tyr Lys Val Lys Val Leu Glu Asp Ala Leu Asn Gly
 1 5 10 15
 Thr Leu Val Ile Asn Leu Asn Ala Thr Asp Pro Asp Glu Gly Ile Asn
 20 25 30
 Gly Asp Ile Ile Tyr Ser Phe Arg Arg Pro Val Ser Pro Ala Val Val
 35 40 45
 His Ala Phe Asn Ile Asp Ser Asn Ser Gly Glu Val Arg Thr Lys Gly
 50 55 60
 Leu Leu Asp Phe Glu Glu Ile Lys Leu Tyr Glu Ile Pro Val Glu Ala
 65 70 75 80
 Val Asp Lys Gly Asn Ile Pro Met Thr Gly His Cys Thr Leu Leu Val
 85 90 95
 Glu Leu Leu Asp Val Asn Asp Asn Ala Pro Glu Val
 100 105

<210> 41
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 41
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 Thr Leu Val Ile Lys Leu Asn Ala Ser Asp Ala Asp Glu Gly Ile Asn
 20 25 30

Lys Glu Ile Leu Tyr Phe Phe Ser Asn Leu Val Leu Asp Asp Val Lys
 35 40 45
 Ser Lys Phe Thr Ile Asp Ser Ser Ser Gly Glu Ile Lys Val Lys Gly
 50 55 60
 Glu Leu Asp Tyr Glu Asp Cys Lys Val Tyr Glu Ile Asn Ile Asp Ala
 65 70 75 80
 Val Asp Arg Ser Ala Phe Pro Leu Ala Gly His Cys Lys Ile Ile Val
 85 90 95
 Lys Leu Val Asp Val Asn Asp Asn Val Pro Glu Met
 100 105

<210> 42
 <211> 107
 <212> PRT
 <213> Mus musculus

<400> 42
 Asp His Leu Glu Tyr Lys Val Arg Ile Met Glu Asn Ala Ala Lys Glu
 1 5 10 15
 Thr Leu Val Ile Thr Leu Asn Ala Thr Asp Leu Asp Glu Gly Ala Asn
 20 25 30
 Gly Gln Leu Val Tyr Ser Leu Met Ser Ile Lys Pro Thr Gly Arg His
 35 40 45
 Leu Phe Thr Leu Asp Glu Lys Asn Gly Glu Leu Arg Val Asn Gly Thr
 50 55 60
 Leu Asp Tyr Glu Glu Asn Lys Leu Tyr Glu Ile Glu Val Leu Ala Thr
 65 70 75 80
 Asp Lys Gly Thr Pro Pro Met Val Gly His Cys Val Val Leu Val Glu
 85 90 95
 Ile Leu Asp Thr Asn Asp Asn Ser Pro Glu Val
 100 105

<210> 43
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 43
 Asp Arg Ser Val Tyr Glu Val Lys Met Tyr Glu Asn Gln Glu Asn Lys
 1 5 10 15
 Thr Leu Val Ile Trp Leu Asn Ala Thr Asp Ser Asp Glu Gly Ile Asn
 20 25 30
 Lys Glu Val Glu Tyr Ser Phe Ser Ser Leu Ala Ser Ser Ile Ile Arg
 35 40 45
 Gln Lys Phe Leu Ile Asn Glu Lys Thr Gly Glu Ile Lys Ile Asn Gly

50 55 60
 Ala Ile Asp Phe Glu Glu Ser Asn Asn Tyr Glu Ile His Val Asp Ala
 65 70 75 80
 Thr Asp Lys Gly Tyr Pro Pro Met Val Ala His Cys Thr Val Leu Val
 85 90 95
 Glu Ile Leu Asp Glu Asn Asp Asn Ala Pro Glu Ile
 100 105

<210> 44
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 44
 Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
 1 5 10 15
 Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
 20 25 30
 Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
 35 40 45
 Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
 50 55 60
 Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
 65 70 75 80
 Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe Ile Val Lys Val
 85 90 95
 Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
 100 105

<210> 45
 <211> 106
 <212> PRT
 <213> Mus musculus

<400> 45
 Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu Tyr Thr Gly Pro
 1 5 10 15
 Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile Asp Ser Gly Asp
 20 25 30
 Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala Gly Thr Ile Phe
 35 40 45
 Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr Lys Thr Leu Asp
 50 55 60
 Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln Ala Val Asp Arg
 65 70 75 80

<400> 47
Asp Xaa Xaa Asp Xaa
1 5

<210> 48
 <211> 5
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: Classical
 Cadherin Cell Adhesion Recognition Sequence

<400> 48
 Tyr Ile Gly Ser Arg
 1 5

<210> 49
 <211> 10
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: Classical
 Cadherin Cell Adhesion Recognition Sequence

<400> 49
 Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
 1 5 10

<210> 50
 <211> 17
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: N-CAM Heparin
 Sulfate-Binding Site

<400> 50
 Ile Trp Lys His Lys Gly Arg Asp Val Ile Leu Lys Lys Asp Val Arg
 1 5 10 15

Phe

<210> 51
 <211> 4
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: Putative Claudin
 Cell Adhesion Recognition Sequence

<400> 51
 Ile Tyr Ser Tyr
 1

<210> 52

<211> 4
 <212> PRT
 <213> Unknown

<220>
 <223> Description of Unknown Organism: Occludin Cell
 Adhesion Recognition Sequence

<400> 52
 Leu Tyr His Tyr
 1

<210> 53
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Cyclic Peptide

<220>
 <221> VARIANT
 <222> (2)
 <223> Where Xaa is beta,beta-tetramethylene cysteine

<220>
 <223> Description of Artificial Sequence: Product of
 Synthesis and Cyclization based on Human
 OB-Cadherin

<400> 53
 Ile Xaa Val Ile Asp Asp Lys Ser Cys Glu
 1 5 10

<210> 54
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Product of
 Synthesis and Cyclization based on Human
 OB-Cadherin

<220>
 <223> Cyclic Peptide

<220>
 <221> VARIANT
 <222> (2)
 <223> Where Xaa is beta,beta-pentamethylene cysteine

<400> 54
 Ile Xaa Val Ile Asp Asp Lys Ser Gly Cys
 1 5 10

<210> 55
 <211> 9

<212> PRT
 <213> Artificial Sequence

<220>
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 Synthesis and Cyclization based on Human
 OB-Cadherin

<220>
 <223> Cyclic Peptide

<220>
 <221> VARIANT
 <222> (1)
 <223> Where Xaa is beta-mercaptopropionic acid

<400> 55
 Xaa Val Ile Asp Asp Lys Ser Gly Cys
 1 5

<210> 56
 <211> 9
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<220>
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 Synthesis and Cyclization based on Human
 OB-Cadherin

<220>
 <223> Cyclic Peptide

<220>
 <221> VARIANT
 <222> (1)
 <223> Where Xaa is
 beta,beta-pentamethylene-beta-mercaptopropionic
 acid

<400> 56
 Xaa Val Ile Asp Asp Lys Ser Gly Cys
 1 5

<210> 57
 <211> 5
 <212> PRT
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<220>
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<220>
 <221> VARIANT
 <222> (4)
 <223> Where Xaa is D-Serine

<220>
 <223> Description of Artificial Sequence: Product of

Synthesis and Cyclization based on Human
OB-Cadherin

<400> 57

Asp Asp Lys Xaa Ser
1 5

<210> 58

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
Synthesis and Cyclization based on Human
OB-Cadherin

<220>

<223> Cyclic Peptide

<400> 58

Trp Gly Gly Trp
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<210> 59

<211> 6

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: E-Cadherin Cell
Adhesion Recognition Sequence

<400> 59

Ser His Ala Val Ser Ser
1 5

<210> 60

<211> 6

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: N-Cadherin Cell
Adhesion Recognition Sequence

<400> 60

Ala His Ala Val Asp Ile
1 5

<210> 61

<211> 15

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: N-Cadherin Cell

Adhesion Recognition Sequence

<400> 61

Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
 1 5 10 15

<210> 62

<211> 48

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: Occludin Cell
 Adhesion Recognition Sequence

<400> 62

Gly Val Asn Pro Thr Ala Gln Ser Ser Gly Ser Leu Tyr Gly Ser Gln
 1 5 10 15

Ile Tyr Ala Leu Cys Asn Gln Phe Tyr Thr Pro Ala Ala Thr Gly Leu
 20 25 30

Tyr Val Asp Gln Tyr Leu Tyr His Tyr Cys Val Val Asp Pro Gln Glu
 35 40 45

<210> 63

<211> 10

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown Organism: N-CAM Cell
 Adhesion Recognition Sequence

<400> 63

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
 1 5 10

<210> 64

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Product of
 Synthesis based on Human Cadherin-5 Cell Adhesion
 Recognition Sequence

<400> 64

Val Phe Arg Val Asp Ala Glu Thr Gly Asp
 1 5 10

<210> 65

<211> 4

<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: Calcium Binding
Motifs in the Extracellular Domains of
Nonclassical Cadherins

<400> 65
Met Asp Arg Glu
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<210> 66
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: Calcium Binding
Motifs in the Extracellular Domains of
Nonclassical Cadherins

<400> 66
Leu Asp Phe Glu
1

<210> 67
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: Calcium Binding
Motifs in the Extracellular Domains of
Nonclassical Cadherins

<400> 67
Leu Asp Tyr Glu
1

<210> 68
<211> 4
<212> PRT
<213> Unknown

<220>
<223> Description of Unknown Organism: Calcium Binding
Motifs in the Extracellular Domains of
Nonclassical Cadherins

<400> 68
Ile Asp Arg Glu
1

<210> 69
<211> 4
<212> PRT

$\langle 220 \rangle$

<400> 69

<210> 70

$\langle 211 \rangle$ 4

<212> PRT

 $\langle 220 \rangle$

<400> 70

<210> 71

<211> 5

<212> PRT

 $\langle 220 \rangle$

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<222> (5)

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<400> 71

<210> 72

<211> 11

<212> PRT

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 <222> (10)
 <223> Where Xaa is any amino acid

<400> 72
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 1 5 10

<210> 73
 <211> 4
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 73
 Asp Asp Lys Ser
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<210> 74
 <211> 5
 <212> PRT
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 OB-cadherin cell adhesion recognition sequence

<400> 74
Val Ile Asp Asp Lys
1 5

<210> 75
<211> 5
<212> PRT
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OB-cadherin cell adhesion recognition sequence

<400> 75
Ile Asp Asp Lys Ser
1 5

<210> 76
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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OB-cadherin cell adhesion recognition sequence

<400> 76
Val Ile Asp Asp Lys Ser
1 5

<210> 77
<211> 5
<212> PRT
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<220>
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OB-cadherin cell adhesion recognition sequence

<400> 77
Asp Asp Lys Ser Gly
1 5

<210> 78
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
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OB-cadherin cell adhesion recognition sequence

<400> 78
Ile Asp Asp Lys Ser Gly
1 5

<210> 79

<211> 7
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 79
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 1 5

<210> 80
 <211> 6
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 80
 Phe Val Ile Asp Asp Lys
 1 5

<210> 81
 <211> 7
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 81
 Phe Val Ile Asp Asp Lys Ser
 1 5

<210> 82
 <211> 8
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 82
 Phe Val Ile Asp Asp Lys Ser Gly
 1 5

<210> 83
 <211> 7
 <212> PRT
 <213> Artificial Sequence

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OB-cadherin cell adhesion recognition sequence

<400> 83

Ile Phe Val Ile Asp Asp Lys
1 5

<210> 84

<211> 8

<212> PRT

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<220>

<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 84

Ile Phe Val Ile Asp Asp Lys Ser
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<210> 85

<211> 9

<212> PRT

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<220>

<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 85

Ile Phe Val Ile Asp Asp Lys Ser Gly
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<210> 86

<211> 4

<212> PRT

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OB-cadherin cell adhesion recognition sequence

<400> 86

Ile Glu Glu Tyr
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<210> 87

<211> 4

<212> PRT

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OB-cadherin cell adhesion recognition sequence

<400> 87

Glu Glu Tyr Thr

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<210> 88
 <211> 5
 <212> PRT
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<400> 88
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 1 5

<210> 89
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 89
 Ile Glu Glu Tyr Thr
 1 5

<210> 90
 <211> 6
 <212> PRT
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<220>
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<400> 90
 Val Ile Glu Glu Tyr Thr
 1 5

<210> 91
 <211> 5
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 91
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 1 5

<210> 92
 <211> 6
 <212> PRT

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<213> Artificial Sequence

<220>

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<400> 92

Ile Glu Glu Tyr Thr Gly
1 5

<210> 93

<211> 7

<212> PRT

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<220>

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OB-cadherin cell adhesion recognition sequence

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1 5

<210> 94

<211> 6

<212> PRT

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<220>

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OB-cadherin cell adhesion recognition sequence

<400> 94

Phe Val Ile Glu Glu Tyr
1 5

<210> 95

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

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OB-cadherin cell adhesion recognition sequence

<400> 95

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1 5

<210> 96

<211> 8

<212> PRT

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OB-cadherin cell adhesion recognition sequence

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<210> 97
 <211> 7
 <212> PRT
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 OB-cadherin cell adhesion recognition sequence

<400> 97
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 1 5

<210> 98
 <211> 8
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 98
 Phe Phe Val Ile Glu Glu Tyr Thr
 1 5

<210> 99
 <211> 9
 <212> PRT
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<220>
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 OB-cadherin cell adhesion recognition sequence

<400> 99
 Phe Phe Val Ile Glu Glu Tyr Thr Gly
 1 5

<210> 100
 <211> 4
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 OB-cadherin cell adhesion recognition sequence

<400> 100
 Val Glu Ala Gln
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    <211> 4
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    1

    <210> 102
    <211> 5
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    <220>
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        OB-cadherin cell adhesion recognition sequence

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    1                5

    <210> 103
    <211> 5
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    <220>
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        OB-cadherin cell adhesion recognition sequence

    <400> 103
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    1                5

    <210> 104
    <211> 6
    <212> PRT
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    <220>
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        OB-cadherin cell adhesion recognition sequence

    <400> 104
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    1                5

    <210> 105
    <211> 5
    <212> PRT
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<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 105

Glu Ala Gln Thr Gly
1 5

<210> 106

<211> 6

<212> PRT

<213> Artificial Sequence

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OB-cadherin cell adhesion recognition sequence

<400> 106

Val Glu Ala Gln Thr Gly
1 5

<210> 107

<211> 7

<212> PRT

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<220>

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OB-cadherin cell adhesion recognition sequence

<400> 107

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1 5

<210> 108

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 108

Phe Ser Val Glu Ala Gln
1 5

<210> 109

<211> 7

<212> PRT

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<220>

<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 109

Phe Ser Val Glu Ala Gln Thr
1 5

<210> 110
<211> 8
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<220>
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OB-cadherin cell adhesion recognition sequence

<400> 110

Phe Ser Val Glu Ala Gln Thr Gly
1 5

<210> 111
<211> 7
<212> PRT
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<220>
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OB-cadherin cell adhesion recognition sequence

<400> 111

Tyr Phe Ser Val Glu Ala Gln
1 5

<210> 112
<211> 8
<212> PRT
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<220>
<223> Representative linear modulating agent based on
OB-cadherin cell adhesion recognition sequence

<400> 112

Tyr Phe Ser Val Glu Ala Gln Thr
1 5

<210> 113
<211> 9
<212> PRT
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<220>
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OB-cadherin cell adhesion recognition sequence

<400> 113

Tyr Phe Ser Val Glu Ala Gln Thr Gly
1 5

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<211> 4
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 114
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<210> 115
 <211> 4
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 115
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<210> 116
 <211> 5
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 116
 Arg Val Asp Ala Glu
 1 5

<210> 117
 <211> 5
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 117
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 1 5

<210> 118
 <211> 6
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<220>

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cadherin-5 cell adhesion recognition sequence

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Arg Val Asp Ala Glu Thr
1 5

<210> 119
<211> 5
<212> PRT
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<220>
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cadherin-5 cell adhesion recognition sequence

<400> 119
Asp Ala Glu Thr Gly
1 5

<210> 120
<211> 6
<212> PRT
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<220>
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cadherin-5 cell adhesion recognition sequence

<400> 120
Val Asp Ala Glu Thr Gly
1 5

<210> 121
<211> 7
<212> PRT
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<220>
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cadherin-5 cell adhesion recognition sequence

<400> 121
Arg Val Asp Ala Glu Thr Gly
1 5

<210> 122
<211> 6
<212> PRT
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<220>
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cadherin-5 cell adhesion recognition sequence

<400> 122
Phe Arg Val Asp Ala Glu

1

5

<210> 123
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 123

Phe Arg Val Asp Ala Glu Thr
 1 5

<210> 124
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 124

Phe Arg Val Asp Ala Glu Thr Gly
 1 5

<210> 125
 <211> 7
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 125

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 1 5

<210> 126
 <211> 8
 <212> PRT
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<220>
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 cadherin-5 cell adhesion recognition sequence

<400> 126

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 1 5

<210> 127
 <211> 9
 <212> PRT

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<223> Representative linear modulating agent based on
cadherin-5 cell adhesion recognition sequence

<400> 127

Val Phe Arg Val Asp Ala Glu Thr Gly
1 5

<210> 128

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Representative linear modulating agent based on
cadherin-6 cell adhesion recognition sequence

<400> 128

Ile Asn Glu Asn
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<210> 129

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Representative linear modulating agent based on
cadherin-6 cell adhesion recognition sequence

<400> 129

Asn Glu Asn Thr
1

<210> 130

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Representative linear modulating agent based on
cadherin-6 cell adhesion recognition sequence

<400> 130

Ile Ile Asn Glu Asn
1 5

<210> 131

<211> 5

<212> PRT

<213> Artificial Sequence

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cadherin-6 cell adhesion recognition sequence

<400> 131
 Ile Asn Glu Asn Thr
 1 5

<210> 132
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 cadherin-6 cell adhesion recognition sequence

<400> 132
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 1 5

<210> 133
 <211> 5
 <212> PRT
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 cadherin-6 cell adhesion recognition sequence

<400> 133
 Asn Glu Asn Thr Gly
 1 5

<210> 134
 <211> 6
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 <213> Artificial Sequence

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 cadherin-6 cell adhesion recognition sequence

<400> 134
 Ile Asn Glu Asn Thr Gly
 1 5

<210> 135
 <211> 7
 <212> PRT
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 cadherin-6 cell adhesion recognition sequence

<400> 135
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 1 5

<210> 136
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 cadherin-6 cell adhesion recognition sequence

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 1 5

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 cadherin-6 cell adhesion recognition sequence

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 1 5

<210> 139
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<220>
 <223> Representative linear modulating agent based on
 cadherin-6 cell adhesion recognition sequence

<400> 139
 Leu Phe Ile Ile Asn Glu Asn
 1 5

<210> 140
 <211> 8
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<220>

<223> Representative linear modulating agent based on
cadherin-6 cell adhesion recognition sequence

<400> 140

Leu Phe Ile Ile Asn Glu Asn Thr
1 5

<210> 141

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Representative linear modulating agent based on
cadherin-6 cell adhesion recognition sequence

<400> 141

Leu Phe Ile Ile Asn Glu Asn Thr Gly
1 5

<210> 142

<211> 4

<212> PRT

<213> Artificial Sequence

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Glu Tyr Phe Ser Ile Asp Pro Lys Thr Gly Lys
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Lys Asp Pro Lys Asp
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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

<400> 2597

Phe Phe Val Val Glu Glu Tyr Thr
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<210> 2598

<211> 9

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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

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Phe Phe Val Val Glu Glu Tyr Thr Gly
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<210> 2599

<211> 5

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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

<400> 2599

Leu Ile Asp Glu Leu
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<210> 2600
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PB-cadherin cell adhesion recognition sequence

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PB-cadherin cell adhesion recognition sequence

<400> 2601

Leu Ile Asp Glu Leu Thr Gly
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 PB-cadherin cell adhesion recognition sequence

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<210> 2606
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 PB-cadherin cell adhesion recognition sequence

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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

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Thr Val Asp Pro Lys Thr Gly
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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

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Phe Thr Val Asp Pro Lys
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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

<400> 2612

Phe Thr Val Asp Pro Lys Thr

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<223> Representative cyclic modulating agent based on
PB-cadherin cell adhesion recognition sequence

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Phe Thr Val Asp Pro Lys Thr Gly

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PB-cadherin cell adhesion recognition sequence

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His Phe Thr Val Asp Pro Lys

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PB-cadherin cell adhesion recognition sequence

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PB-cadherin cell adhesion recognition sequence

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His Phe Thr Val Asp Pro Lys Thr Gly

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Protocadherin cell adhesion recognition sequence

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Desmocollin

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cadherin-related neuronal receptor cell adhesion
recognition sequence

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recognition sequence

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recognition sequence

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Cys Asp Ser Asn Ser Gly Cys
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Cys Ile Asp Ser Asn Cys
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recognition sequence

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recognition sequence

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